# **CATENT COOPERATION TREATY**

	From the INTERNATIONAL BUREAU
PCT	То:
NOTIFICATION OF ELECTION  (PCT Rule 61.2)	Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE
Date of mailing (day/month/year)	<b>기</b>
20 October 2000 (20.10.00)	in its capacity as elected Office
International application No. PCT/US00/08031	Applicant's or agent's file reference 7489/3M
International filing date (day/month/year)	Priority date (day/month/year)
24 March 2000 (24.03.00)	25 March 1999 (25.03.99)
1.pplicant	W:
PANANDIKER, Rajan, Keshav et al	•
in a notice effecting later election filed with the Interest.  2. The election X was was was not	er 2000 (07.09.00)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer  Manu Berrod

Telephone No.: (41-22) 338.83.38

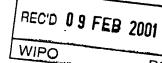
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# **PCT**

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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				19
Applicant's 7489/3M	_	nt's file reference	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
Internation	al appli	cation No.	International filing date (day/monti	h/year) Priority date (day/month/year)
PCT/US			24/03/2000	25/03/1999
International C11D3/0		nt Classification (IPC) or	national classification and IPC	
Applicant			IDANIX -4 ol	
THE PRO	OCTE	R & GAMBLE COM	PANY et al.	
			mination report has been prepared taccording to Article 36.	d by this International Preliminary Examining Authority
2. This	REPO	RT consists of a total	of 8 sheets, including this cover s	sheet.
b (:	een a see Ri	mended and are the b	pasis for this report and/or sheets on 607 of the Administrative Instruction	ne description, claims and/or drawings which have containing rectifications made before this Authority ions under the PCT).
			elating to the following items:	
1	⊠ ⊠	Basis of the report		
	-	Priority		
				ventive step and industrial applicability
IV	⊠ ⊠	•		novelty, inventive etch or industrial applicability
V	×		ations suporting such statement	novelty, inventive step or industrial applicability;
VI		Certain documents	cited	
VII	$\boxtimes$	Certain defects in the	e international application	
VIII		Certain observations	on the international application	
Data of a 1		n of the demand	Data et	completion of this report
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07/09/20	100		07.02.2	2001
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<u>a</u> ))	D-80	pean Patent Office 298 Munich		ann, J-C
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# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/08031

### I. Basis of the report

1.	res the	ponse to an invitation	rawn on the basis of (substitute sheets which have been furnished to the receiving Office in on under Article 14 are referred to in this report as "originally filed" and are not annexed to not contain amendments (Rules 70.16 and 70.17).):
	1-2	5	as originally filed
	Cla	ims, No.:	
	1-1	1	as originally filed
2.	lanç	guage in which the i	uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.
	The	ese elements were a	vailable or furnished to this Authority in the following language: , which is:
		the language of a t	ranslation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of pu	blication of the international application (under Rule 48.3(b)).
		the language of a t 55.2 and/or 55.3).	ranslation furnished for the purposes of international preliminary examination (under Rule
3.			leotide and/or amino acid sequence disclosed in the international application, the y examination was carried out on the basis of the sequence listing:
		contained in the int	ernational application in written form.
		filed together with t	he international application in computer readable form.
		furnished subseque	ently to this Authority in written form.
		furnished subseque	ently to this Authority in computer readable form.
			the subsequently furnished written sequence listing does not go beyond the disclosure in oplication as filed has been furnished.
		The statement that listing has been fur	the information recorded in computer readable form is identical to the written sequence nished.
4.	The	amendments have	resulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:
5.			en established as if (some of) the amendments had not been made, since they have been eyond the disclosure as filed (Rule 70.2(c)):



International application No. PCT/US00/08031

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6.	Ado	litional observations, if necessary:
II.	Pric	prity
1.		This report has been established as if no priority had been claimed due to the failure to furnish within the prescribed time limit the requested:
		☐ copy of the earlier application whose priority has been claimed.
		☐ translation of the earlier application whose priority has been claimed.
2.	×	This report has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid.
	Thu date	s for the purposes of this report, the international filing date indicated above is considered to be the relevant e.
3.	Add	litional observations, if necessary:
IV.	Lac	k of unity of invention
1.	In re	esponse to the invitation to restrict or pay additional fees the applicant has:
		restricted the claims.
		paid additional fees.
		paid additional fees under protest.
		neither restricted nor paid additional fees.
2.	⊠	This Authority found that the requirement of unity of invention is not complied and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.
3.	This	Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
		complied with.
	Ø	not complied with for the following reasons: see separate sheet
4.		sequently, the following parts of the international application were the subject of international preliminary mination in establishing this report:

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/08031

×	all parts.
	the parts relating to claims Nos.

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims 4,8-11

No:

Claims 1,2,3,5,6,7

Inventive step (IS)

Yes:

Claims

No:

Claims 4,8-11

Industrial applicability (IA)

Yes:

Claims 1-11

No: Claims

2. Citations and explanations see separate sheet

#### VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

**EXAMINATION REPORT - SEPARATE SHEET** 

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#### II. **Priority**

The priority document 60/126,072 from which the application claims the priority date of 25.03.99 relates to compositions comprising:

- 1 to 70% of a surfactant;
- 0.01 to 10% of a dye maintenance polymer or oligomer deriving from specific monoethylenically unsaturated monomers.

The subject-matter of the present invention does not relate exclusively to compositions comprising said dye maintenance polymer or oligomer.

Thus, the priority date of 25.03.99 cannot be acknowledged, only the filing date of the present application will be considered, i.e. 24.03.00.

## IV. Lack of unity of invention

The following documents, not cited in the search report, are referred to herein:

EP-A-0 798 414

FR-A-2 041 667

Document EP-A-0 798 414 relates to a composition which improves the resistance of fabrics upon wearing, as well as the resistance to colour fading (see more particularly at column 3, lines 23). Compositions comprising cationic resins are recited.

The present application encompasses (broadly) several types of polymers, i.e., those having the units (I), and those having the units (II).

Even if the Applicant had overcome the objections of novelty raised below, and

**EXAMINATION REPORT - SEPARATE SHEET** 

succeeded in establishing the reality of the effect assigned to the polymers that he uses, said effect would have not formed the common inventive concept unifying the two types of compositions discussed above: this effect is known from this EP document.

Then, each type of composition is, on its own, an alternative over the compositions disclosed in the EP document. And, if their activity had been proven. each type of composition (depending on the polymer) would have been a nonobvious alternative over this EP document. Thus confirming the objection of lack of unity in the sense of Rule 13.1 PCT.

The French document provides more details about the cationic polymer used in the EP document.]

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step and industrial applicability
- 1. Novelty.
- 1.1. Document US-A-4 418 011 (see Example 11 which comprises Merquat 550) anticipates the subject-matter of claims 1, 3, 5, 6, and 7. The polymers used therein are intended to reduce the occurrence of static charges.
- 1.2. Document DE-A-196 49 288 (see the formulations containing the polymers P1 to P3 in the table on page 9) anticipates the subject-matter of claims 1, 2, 3, and 5. The polymers used therein are intended to prevent dye transfer occurrence.
- 1.3. Document US-A-5 783 533 relates to rheology modifying agents. Formulation 17 (see Table 2; it comprises about 37% by weight of surfactant and 0.56% of agent) anticipates the subject-matter of claims 1, 3 and 5.
- 2. Inventive step.

2.1. The Applicant has stated a problem (deterioration of fabric integrity).

But has not established that a composition, comprising the polymer defined in claim 1 item A), does solve it. The Applicant assigns a "dye protection" capacity to said polymer, but that is a mere allegation.

The Applicant was respectfully requested to submit convincing evidence in order to substantiate his allegation, by means of comparative tests, wherein a composition comprising one of said polymer is compared to a similar composition, but devoid of polymer.

- 2.2. The Applicant refrained to submit this evidence, the Examining Authority thus concludes that the problem actually faced by the Applicant is any one solved previously in the art (i.e. the problems faced in any of the documents cited below), and that the Applicant has merely used or slightly altered or better defined the polymers known in said prior art.
- 2.2.1. Document GB-A-2 104 091 relates to amphoteric polymers which enhance the cleaning action of the detergents which are present. Since it may not be determined whether polymers having a global positive charge are definitely synthesized (and have been used in the exemplifying compositions), no objection of lack of novelty is based on this citation.
- 2.2.2. The abstract from the data base WPI (abstract of JP 61 031499) does not anticipates the subject-matter of the present claims, for there is no specific, unambiguous disclosure of a composition falling within the ranges defined by the present claims. However, it relates to polymers, possibly encompassed by said claims, and which are intended to retard the detergent activity of a composition till the rinsing step.
- 2.2.3. No objection against the novelty of the subject-matter of the claims is raised on the basis of WO 98/16538, which relates to fabric softening compositions which comprise deposition aids, some of them falling within the various definitions of the "dye maintenance" material used in the present invention (see on page 36,

**EXAMINATION REPORT - SEPARATE SHEET** 

FlocAid 34, Merguat 100; poly DMDAAC:EHA ex National Starch; Example 53). These compositions may also comprise cationic surfactants (see Example 53).

- 2.2.4. WO 98/12292 relates to fabric softening compositions comprising a softening booster which may be polyvinylamine; some surfactant may also be present (up to 15%, see on page 19).
- 2.3. In the state of the file, it seems that the features encompassed by the claims which are novel are present for their known properties, and that there is no unexpected inter-relationship between them. Said claims are novel, but lack an inventive step.
- 2.4. See also above, the item IV. of this report.
- VII. Certain defects in the international application.

Depending on the argumentation that the Applicant will submit upon entering the Regional Phase, US-A-4 418 011, DE-A-196 49 288, US-A-5 783 533, GB-A-2 104 091, JP 61 031499, WO 98/16538, WO 98/12292 and EP-A-0 798 414 might have to be cited and commented.

### FOR THE PURPOSES OF INFORMATION ONLY

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DK	Denmark	LK	Sri Lanka	SE	Sweden		
EE	Estonia	LR	Liberia	SG	Singapore		

# INTERNATIONAL SEARCH REPORT



Int .tional Application No PCT/US 00/08031

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C11D3/00 C11D3/37

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  $\ensuremath{\text{IPC}}\xspace 7 \ensuremath{\text{C11D}}\xspace$ 

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUM	C. DOCUMENTS CONSIDERED TO BE RELEVANT							
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.						
E	WO OO 22077 A (GOSSELINK EUGENE PAUL; PANANDIKER RAJAN KESHAV (US); RANDALL SHERR) 20 April 2000 (2000-04-20) examples #19-31,34-39 of table III examples III-VI; tables III-VI claims 1-8	1–11						
X	US 4 418 011 A (BAUMAN ROBERT A ET AL) 29 November 1983 (1983-11-29) claims 1,5,6,9,10; examples 1-4,7,8,11,12	1-3,5-7, 9						
X	EP 0 754 748 A (PROCTER & GAMBLE) 22 January 1997 (1997-01-22) claims 1-6 -/	1,5,8						

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
<ul> <li>Special categoriee of cited documents:</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> <li>"E" earlier document but published on or after the international filling date</li> <li>"L" document which may throw doubts on priority claim(e) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filing date but later than the priority date claimed</li> </ul>	T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "&" document member of the same patent family
Date of the actual completion of the International search 7 July 2000	Date of mailing of the international search report  19/07/2000
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentiaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Authorized officer  Loiselet-Taisne, S

## INTERNATIONAL SEARCH REPORT

tratu idonal Application No PCT/US 00/08031

ation) DOCUMENTS CONSIDERED TO BE RELEVANT	101703.00700031
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
DE 196 49 288 A (HENKEL KGAA) 4 June 1998 (1998-06-04) page 4, line 33 - line 36; claims 1-7,13,14; examples; table 1	1-3,5
WO 98 12292 A (BAKER ELLEN SCHMIDT; HARTMAN FREDERICK ANTHONY (US); PROCTER & GAM) 26 March 1998 (1998-03-26) claims 1,5; examples 1,2	1,3-5
GB 2 104 091 A (KAO CORP)	1-3,5,9
synthesis ex. 1, 2 page 3, line 42 - line 48; table 1	8
WO 98 16538 A (UNILEVER PLC ;GRAINGER DAVID STEPHEN (GB); UNILEVER NV (NL); KHAN) 23 April 1998 (1998-04-23) claim 1; examples 50F,51D	1-3,6,7
US 5 783 533 A (KENSICHER YVES ET AL) 21 July 1998 (1998-07-21) trial 9, 16, 17, 19 column 21, line 41 - line 44; claims 1,4,8,12,16,17; example 7; table 5	1-3,5
WO 99 05248 A (UNILEVER PLC; UNILEVER NV (NL)) 4 February 1999 (1999-02-04) see Merquat 100, 280, 295, 550, 2200, plus 3330, plus 3331, S; FlocAid 19; Salcare SC 10 of pages 40-41 page 46, line 10 - line 17; claims 1-5; examples 1-3	1,3,5-7
DATABASE WPI Section Ch, Week 198613 Derwent Publications Ltd., London, GB; Class A97, AN 1986-085029 XP002140983 & JP 61 031499 A (LION CORP), 13 February 1986 (1986-02-13) abstract	1-3
	DE 196 49 288 A (HENKEL KGAA) 4 June 1998 (1998-06-04) page 4, line 33 - line 36; claims 1-7,13,14; examples; table 1  WO 98 12292 A (BAKER ELLEN SCHMIDT; HARTMAN FREDERICK ANTHONY (US); PROCTER & GAM) 26 March 1998 (1998-03-26) claims 1,5; examples 1,2  GB 2 104 091 A (KAO CORP) 2 March 1983 (1983-03-02) synthesis ex. 1, 2 page 3, line 42 - line 48; table 1  WO 98 16538 A (UNILEVER PLC; GRAINGER DAVID STEPHEN (GB); UNILEVER NV (NL); KHAN) 23 April 1998 (1998-04-23) claim 1; examples 50F,51D  US 5 783 533 A (KENSICHER YVES ET AL) 21 July 1998 (1998-07-21) trial 9, 16, 17, 19 column 21, line 41 - line 44; claims 1,4,8,12,16,17; example 7; table 5  WO 99 05248 A (UNILEVER PLC; UNILEVER NV (NL)) 4 February 1999 (1999-02-04) see Merquat 100, 280, 295, 550, 2200, plus 3330, plus 3331, S; FlocAid 19; Salcare SC 10 of pages 40-41 page 46, line 10 - line 17; claims 1-5; examples 1-3  DATABASE WPI Section Ch, Week 198613 Derwent Publications Ltd., London, GB; Class A97, AN 1986-085029 XP002140983 & JP 61 031499 A (LION CORP), 13 February 1986 (1986-02-13)

# INTERNATIONAL SEARCH REPORT

#### information on patent family members

Int. donal Application No PCT/US 00/08031

Patent	document		Publication	<del></del>	Patent family		Publication
	earch repor	t	date		member(s)		date
WO 002	22077	Α	20-04-2000	WO	0022078	A	20-04-2000
001		F		. WO	0022075		20-04-2000
				WO	0022079		20-04-2000
		<del></del> -				· ^	20 -04-2000
US 44	18011	Α	29-11-1983	AU	554970		11-09-1986
				AU	1715183	A	09-02-1984
				CA	1197355	Α	03-12-1989
				CH	670543	Α	30-06-1989
				DK	345383		04-02-1984
				FR	2531450		10-02-1984
				IT	1169070		27-05-1987
				MX	158947		03-03-1989
				ZA	8305225		27-03-1985
	4740		00 01 1007		0600751		06 07 400
EP 075	4/48	Α	22-01-1997	BR	9609751		06-07-1999
				CA	2227412		06-02-1997
				WO	9704062	Α	06-02-1997
DE 196	49288	Α	04-06-1998	WO	9823714	A	04-06-1998
				ΕP	0944701		29-09-1999
WO 001	2202	^	26_02_1000		40EC007		14 04 1000
WO 981	. L L <del>J</del> L	Α	26-03-1998	AU	4356297		14-04-1998
				AU	4356397		14-04-1998
				CN	1237199		01-12-1999
				CN	1238000		08-12-1999
				CZ	9900945		11-08-1999
				EP	0931131		28-07-1999
				EP	0931132	A	28-07-1999
					000503080	Ī	14-03-2000
					000503735	Ţ	28-03-2000
				NO	991201		19-05-1999
				NO	991203		19-05-1999
				WO	9812293	Α	26-03-1998 
GB 210	4091	A	02-03-1983	JP	1055320	В	24-11-1989
				ĴΡ	1569529		10-07-1990
				JP	58013700	Α	26-01-1983
				HK	46788		01-07-1988
				MY	54987		31-12-1987
				SG	63187		19-02-1988
	 6E20		22 04 1000	AII	E0E1000	Α	11 05 1000
WO 981	ひつろひ	A	23-04-1998	AU	5051098		11-05-1998
				EP	0934328		11-08-1999
		<del></del> -		ZA	9709231	Α	15-04-1999
US 578	3533	A	21-07-1998	FR	2732031	A	27-09-1996
			· -	CA	2169894		24-09-1996
				EP	0733700		25-09-1996
WO 990	E240	Α	04_02_1000	110	E001456		00 11 1000
MO 330	<b>3240</b>	Α	04-02-1999	US	5981456		09-11-1999
				AU	8864298		16-02-1999
				EP	0893491		27-01-1999
				EP	0998548		10-05-2000
				AU	9258498		29-11-1999
				WO	9958633	А	18-11-1999